

AWWA WLCC Free Water Audit Software: Reporting Worksheet

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WAS v4.2

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?

Click to access definition

Water Audit Report for:Indian Cove

Reporting Year:20121/2012 - 12/2012

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: MILLION GALLONS (US) PER YEAR

WATER SUPPLIED

<< Enter grading in column 'E'

Volume from own sources:40.459Million gallons (US)/yr (MG/Yr)

Master meter error adjustment (enter positive value):10.000over-registered MG/Yr

Water imported:81.156MG/Yr

Water exported:n/a0.000MG/Yr

WATER SUPPLIED:1.615MG/Yr

AUTHORIZED CONSUMPTION

Billed metered:81.041MG/Yr

Billed unmetered:100.000MG/Yr

Unbilled metered:n/a0.000MG/Yr

Unbilled unmetered:0.020MG/Yr

Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed

AUTHORIZED CONSUMPTION:1.062MG/Yr

Click here: ? for help using option buttons below

Pcnt:1.25%Value:

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)0.554MG/Yr

Apparent Losses

Unauthorized consumption:0.004MG/Yr

Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed

Customer metering inaccuracies:40.021MG/Yr

Systematic data handling errors:50.000MG/Yr

Apparent Losses:0.025

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses:0.528MG/Yr

WATER LOSSES:0.554MG/Yr

Pcnt:0.25%Value:

2.00%Value:

Choose this option to enter a percentage of billed metered consumption. This is NOT a default value

NON-REVENUE WATER

NON-REVENUE WATER:0.574MG/Yr

= Total Water Loss + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:40.8miles

Number of active AND inactive service connections:834

Connection density:41conn./mile main

Average length of customer service line:80.0ft (pipe length between curbstop and customer meter or property boundary)

Average operating pressure:170.0psi

COST DATA

Total annual cost of operating water system:10\$11,850\$/Year

Customer retail unit cost (applied to Apparent Losses):10\$11.26\$/1000 gallons (US)

Variable production cost (applied to Real Losses):10\$536.74\$/Million gallons

PERFORMANCE INDICATORS

Financial Indicators

Non-revenue water as percent by volume of Water Supplied:35.5%

Non-revenue water as percent by cost of operating system:4.9%

Annual cost of Apparent Losses:\$286

Annual cost of Real Losses:\$283

Operational Efficiency Indicators

Apparent Losses per service connection per day:2.05gallons/connection/day

Real Losses per service connection per day*:42.56gallons/connection/day

Real Losses per length of main per day*:N/A

Real Losses per service connection per day per psi pressure:0.61gallons/connection/day/psi

Unavoidable Annual Real Losses (UARL):Not Valid

*** UARL cannot be calculated as either average pressure, number of connecions or length of mains is too small: SEE UARL DEFINITION ***

From Above, Real Losses = Current Annual Real Losses (CARL):0.53

Infrastructure Leakage Index (ILI) [CARL/UARL]:

* only the most applicable of these two indicators will be calculated

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 72 out of 100 ***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Volume from own sources

2: Water imported

3: Customer metering inaccuracies

For more information,click here to see the Grading Matrix worksheet

AWWA Water Loss Control Committee

Reporting Worksheet 1